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DESCRIPTION: **Combined Modification Document -
Modification Note 72
TCTO 31P1-4-108-614
EEM 6345.1 CHG 46, Chap 42
DoD Dedicated Circuit Relocations
and New Installs on the Radar Product
Generator**

DATE OF ISSUE: October 27, 2003

QUANTITY OF ISSUE: EACH

DOD DEDICATED CIRCUIT RELOCATIONS AND NEW INSTALLS ON THE RADAR PRODUCT GENERATOR

DOPPLER METEOROLOGICAL RADAR WSR-88D




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FAA: EEM Modification Handbook 6345.1 CHG 46, Chap 42

FAA APPROVAL


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NWS: EHB-6, Modification Note 72
DoD: TO 31P1-4-108-614
FAA: EEM Modification Handbook 6345.1 CHG 46, Chap 42

1. SUBJECT

DoD Dedicated Circuit Relocations and New Installs on the Radar Product Generator (RPG).

2. PURPOSE

This document provides instructions to relocate specific, and install new, dedicated DoD telecommunications circuits on the NEXRAD RPG demarc blocks. The circuit relocations reallocate X.25 serial ports as Point-to-Point Protocol (PPP) serial ports. This change is required to support conversion of the DoD radar display system called the Open Principal User Processor (OPUP) system from X.25 to PPP.

For the NWS configuration, up to five dedicated circuits will be relocated. For the DoD/FAA configuration, up to four dedicated circuits will be relocated.

The need for this modification is driven by the OPUP deployment schedule. No hardware kit components are required for the RPG end. Prior to starting this modification, the majority of sites must complete both RPG [Modification Note 65](#) and 71.

After the OPUP Spiral III deployment is complete, Modification Note 73 will be deployed to complete the RPG upgrade. Modification Note 73 will provide cables that convert the remaining two DoD dial ports from X.25 to PPP. For the majority of RPGs, these two ports must remain X.25 for inter-operability with legacy DoD PUPs until OPUP deployment is completed. However, Lajes AB will actually receive Modification Note 73 as soon as the Lajes AB OPUP is installed. Camp Humphreys, Kadena AB, and Kunsan AB will be instructed to complete Modification Note 73 ahead of Mod Note 72 (out of sequence). Sterling should complete [Modification Notes 65](#), 71, and 72 together.

NWS EHB 6-525, Revision 1, 30 April 2003 provides the documentation change for all four OPUP driven modifications ([Modification Notes 65](#), 71, 72, and 73). The authority for these modifications is ECP 0158R2, ORPG PPP SERIAL HW FOR DoD.

For additional information concerning this document, contact the Radar Operations Center (ROC) Hotline, Norman, OK; phone number: (800) 643-3363 or (405) 366-2980 or by e-mail at NEXRAD.Hotline@noaa.gov. An electronic copy of this document can be found at the following internet address:
www.roc.noaa.gov/ssb/sysdoc/techman/tmlinks.asp

3. SITES AFFECTED

See [ATTACHMENT 5](#).

4. ESTIMATED COMPLETION DATE

This modification must be reported completed no later than 60 days after receipt of this document.

5. EQUIPMENT AFFECTED

Radar Product Generator Group.

6. SPARES AFFECTED

Not applicable.

7. MODIFICATION ACCOMPLISHED BY

Site electronics technicians will perform this modification. One technician is required to perform this action.

8. MATERIAL REQUIRED

The following common tools/supplies may be required to complete the modification:

- Pliers, miniature cutters
- NEXRAD RPG Telecommunications Circuit Report (TCR) - Current
- NEXRAD RPG Telecommunications Circuit Report (TCR) - Modification Note 72
- ESD Wrist Strap
- Eight Wire Modular Adapter Harris 10220-100 or equivalent
- Impact Punch Tool, Jensen 23-814 or equivalent
- Impact Punch Tool 66 Blade, Jensen 23-066 or equivalent

9. SOURCE OF MATERIALS

Not applicable.

10. SPECIAL TOOLS AND TEST EQUIPMENT REQUIRED

Transmission Line Test Set AM-48 (SERD 15)

11. TIME AND PERSONNEL REQUIRED

| Work Phases | Work-hours |
|-------------------|------------|
| Unpacking | 0.0 |
| Disassembly | 0.0 |
| Installation | 0.5 |
| Assembly | 0.0 |
| Operational Check | .25 |
| Total Work-hours | 0.75 |

12. DOCUMENTS AFFECTED

Not applicable.

13. VERIFICATION STATEMENT

This modification was successfully installed at the Radar Operations Center, OK.

14. DISPOSITION OF REMOVED AND REPLACED PARTS/MATERIALS

Not applicable.

15. PROCEDURES

All Sites: Complete ATTACHMENT 1 through ATTACHMENT 3 .

- ATTACHMENT 1 - DOWNLOAD NEXRAD TELECOMMUNICATIONS CIRCUIT REPORTS.
- ATTACHMENT 2 - VERIFY CONNECTION STATUS OF DOD DEDICATED CIRCUITS TO BE RELOCATED AND ADJUST CORRESPONDING MODEM TX LEVELS
- ATTACHMENT 3 - RELOCATE SPECIFIC DOD OPUP DEDICATED USER CIRCUITS.

Sites with new OPUP user connections, complete ATTACHMENT 4.

- ATTACHMENT 4 - INSTALL NEW DOD DEDICATED CIRCUITS AND ADJUST CORRESPONDING MODEM TX LEVEL.

16. FAA DISTRIBUTION

This directive is distributed to selected offices and services within Washington headquarters, the William J. Hughes Technical Center, the Mike Monroney Aeronautical Center, regional Airway Facilities divisions, and Airway Facilities field offices having the following facilities/equipment: NXRAD.

17. CHANGES TO TABLE OF CONTENTS (FAA)

This chapter will be included in the next revision to the table of contents for FAA Order 6345.1, Electronic Equipment Modification Handbook - Next Generation Weather Radar (NEXRAD).

18. RECOMMENDATIONS FOR CHANGES (FAA)

Forward any recommendations for changes to this directive through normal channels to the National Airway Systems Engineering Division, AOS-200, Operational Support.

19. REPORTING INSTRUCTIONS

a. NWS

Report completed modification on WS Form A-26, Engineering Management Reporting System Maintenance Record, according to the instructions in NWS Instruction (NWSI) 30-2104, Engineering Management Reporting System (EMRS), part 2 and Appendix E. Include the following information on the WS Form A-26:

- An Equipment Code of RPG in Block 7.
- The appropriate serial number in Block 8.
- A Mod No. of 72 in Block 17a.

A sample EMRS report is provided as ATTACHMENT 7.

b. DoD

Update the AFTO Form 95 to show TCTO compliance. Report TCTO compliance in accordance with TO 00-20-2, Table 3-10, Rule 9.

NWS: EHB-6, Modification Note 72
DoD: TO 31P1-4-108-614
FAA: EEM Modification Handbook 6345.1 CHG 46, Chap 42

c. FAA

Enter this directive number, date, and chapter number on the appropriate FAA Form 6032-1, Airway Facilities Modification Record.

Use the Maintenance Management System (MMS) application Log Equipment Modification (LEM) function to report the completion of this modification. Verify N is in the REP COD field to ensure the log entry will be upward reportable to the national data base for access by AOS. This directive should be entered into the LEM fields as follows:

- (1) FAC/SERV: NXRAD
- (2) LOC/IDENT: 55 BA
- (3) Short Name: SYS
- (4) Order No.: 6345.1
- (5) Chapter: 42
- (6) Change: 46

d. DoD and FAA

Complete [ATTACHMENT 6](#), and return the information to the ROC by one of the four methods below:

- (1) Mail Address: Program Branch, Retrofit Management Team
WSR-88D Radar Operations Center
3200 Marshall Ave., Suite 101
Norman, Oklahoma 73072-8028
- (2) Fax Number: (405) 366-6553
ATTN: Retrofit Management Team
- (3) E-mail Address: NEXRAD.Logistics@noaa.gov
- (4) Web Version: <http://www.roc.noaa.gov/ssb/logistics/completion.asp>

ATTACHMENT 1

DOWNLOAD NEXRAD TELECOMMUNICATIONS CIRCUIT REPORTS

Tools/Materials Required:

Networked PC/Workstation with:

- Internet connection
- Printer connection
- One of the following web browsers loaded on the PC/Workstation:
- Microsoft Internet Explorer Version 6.0 or later
- Netscape 4.79 or later

Initial Conditions:

- All Sites: Completed [Modification Note 65](#) and 71
- Kadena AB, Camp Humphries, and Kunsan AB Only: Completed Modification Note 73

Purpose:

The purpose of this procedure is to remotely access NEXRAD RPG Telecommunications Circuit Reports (TCRs) from the ROC web server via the Internet. The TCRs are needed to complete the modem level adjustment and dedicated demarc panel rewiring procedures in [ATTACHMENT 2](#) and [ATTACHMENT 3](#). The reports are maintained on a secure web server at the NWS ROC. The reports are generated from the ROC's NEXRAD circuit database.

If you do not already have an account, contact the WSR-88D Hotline at (800) 643-3363 for your "Logon Name" and "Password" to access the secure ROC web site that hosts NEXRAD telecommunications data. Overseas DoD sites may also contact the Hotline via Tinker AFB DSN at (312) 884-1110 and offnet to 366-6580.

The Hotline Specialists will have an updated list of all personnel authorized to access the secure web page. Simply identify your name and organization to the hotline specialist. Request your logon name and password for access to the secure web page.

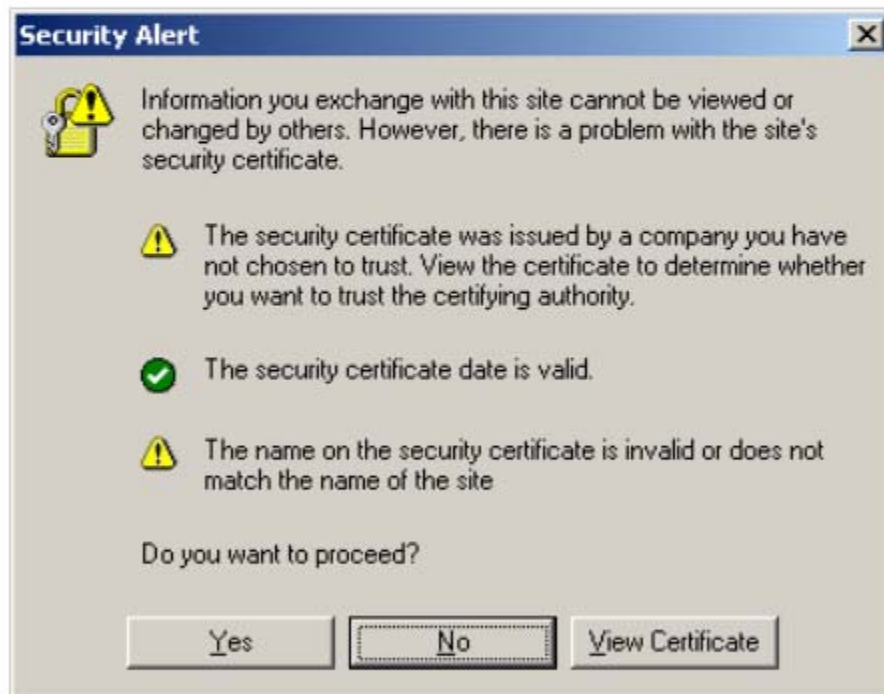
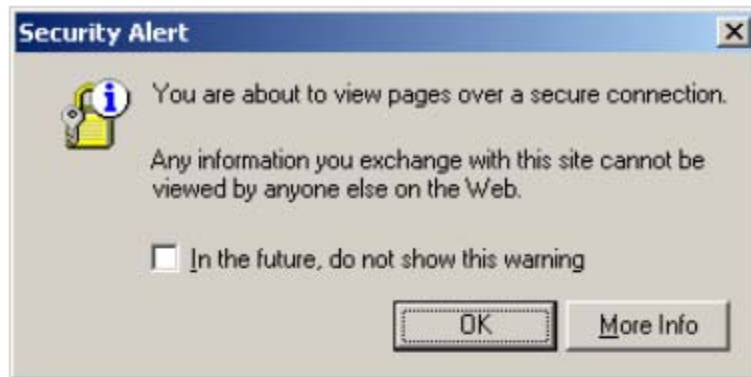
Procedure/Steps:

1. Use a PC or laptop with access to the Internet and either Netscape or Internet Explorer (preferred browser for this procedure) to access the ROC web server. Go to the following web page location: <https://www.roc.noaa.gov/comms/>. Do not obtain the TCRs more than a couple of days in advance of completing this modification for a given RPG site, because ROC may have incorporated updates that could be missed.

ATTACHMENT 1 (Continued)

DOWNLOAD NEXRAD TELECOMMUNICATIONS CIRCUIT REPORTS

2. If this is the first time to access this web site, then a New Site Certificate window will appear. Click the **Next** button in each subsequent certificate window. In the last certificate window, click on the **Finish** button. A new window will appear titled Certificate Name Check. Click on the **Continue** button in this and the subsequent Security Information window until the WSR-88D Comms Notebook Secure Login window appears. If this certificate is not expired, then the following dialog boxes appear. Click **OK** or **Yes** as appropriate until the WSR-88D Comms Notebook Secure Login window appears.



ATTACHMENT 1 (Continued)

DOWNLOAD NEXRAD TELECOMMUNICATIONS CIRCUIT REPORTS

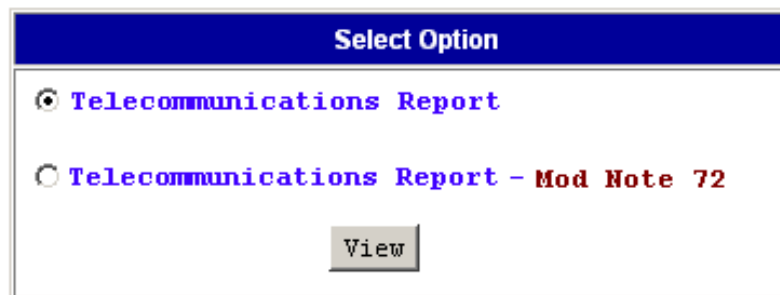
3. Enter the site login name and password and then click on the Login button.

WSR-88D Comms Notebook Secure Login

A blue rectangular login form with a white border. It contains two white input fields. The first field is labeled 'USERNAME' in white text. The second field is labeled 'PASSWORD' in white text. Below the password field is a grey button with the text 'Login' in black.

4. Upon login, the selection options should appear as shown below (where SITENAME is the name of your WSR-88D radar, e.g. VANCE AFB (AFWA), SAN JUAN (FAA), or LITTLE ROCK (NWS), for example). If so, proceed to step 5. Do not proceed, if the option for Modification Note 71 instead of Modification Note 72 appears. This means that the comms database interface to the web does not yet reflect your site's completion of Modification Note 71. Notify the Hotline that Modification Note 71 is completed and the web site will be updated accordingly. Repeat from 1, after the web site has been updated.

WSR-88D Communication Documentation Notebook for SITENAME

A white rectangular form with a blue header bar containing the text 'Select Option' in white. Below the header bar are two radio button options. The first option is 'Telecommunications Report' with a blue radio button. The second option is 'Telecommunications Report - Mod Note 72' with a red radio button. Below the options is a grey button with the text 'View' in black.

5. In the Select Options area of this window, click on the Telecommunications Report button to select the current Telecommunications Circuit Report (TCR). Then click on the View button, and the web browser will advance to the selected TCR. Proceed to step 6 to print using Internet Explorer or step 7 to print using Netscape.

ATTACHMENT 1 (Continued)

DOWNLOAD NEXRAD TELECOMMUNICATIONS CIRCUIT REPORTS

6. To print the TCR using Internet Explorer, first setup for Landscape print format as indicated below. Select **File**, then select the **Page Setup** item from the main menu drop down list. The Page Setup dialog box will appear on the screen. In the Orientation dialog box, select the **Landscape** button under the dialog box area titled Orientation. Select the **OK** button to close the dialog box and save the orientation setting. Then, select **Print** from the File menu and proceed to step 8.

The screenshot shows the 'Page Setup' dialog box with the following settings:

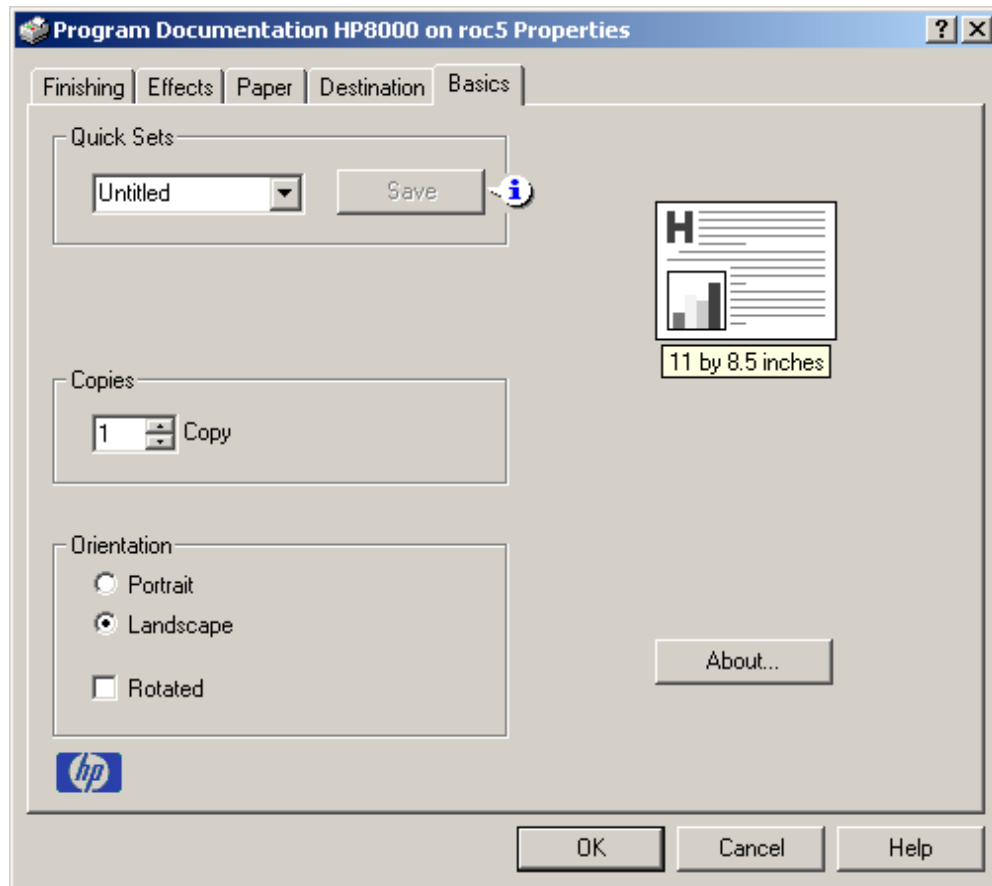
- Paper:**
 - Size: Letter
 - Source: Auto Select
- Headers and Footers:**
 - Header: (empty text box)
 - Footer: (empty text box)
- Orientation:**
 - ☐ Portrait
 - ☒ Landscape
- Margins (inches):**
 - Left: 0.75
 - Right: 0.75
 - Top: 0.75
 - Bottom: 0.75

Buttons at the bottom: OK, Cancel, Printer...

ATTACHMENT 1 (Continued)

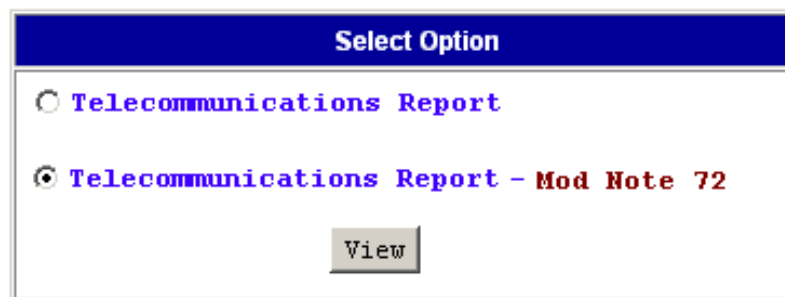
DOWNLOAD NEXRAD TELECOMMUNICATIONS CIRCUIT REPORTS

7. To print using Netscape, Select **File** and then select **Print** from the File menu. Click on the **Properties** dialog box, find the page Orientation section and select **Landscape** as indicated below. Click **OK** to save the change and then click **OK** in the Print dialog window to print the file.



8. Repeat step 4, except click on the **Telecommunications Report - Mod Note 72** in the Select Options area of this window as shown below:

WSR-88D Communication Documentation Notebook for SITENAME



ATTACHMENT 2

VERIFY CONNECTION STATUS OF DOD DEDICATED CIRCUITS TO BE RELOCATED AND ADJUST CORRESPONDING MODEM TX LEVELS

Tools/Materials Required:

Current TCR and TCR for Modification Note 72

Initial Conditions:

- Completed [ATTACHMENT 1](#)
- All RPGPCA components installed, equipment powered on, and RPG operational
- Technician is logged into the RPG workstation as a user and RPG HCI is running
- For All sites, except Sterling: Completed [Modification Note 65](#)
- Sterling: [Modification Note 65](#) and this attachment should be worked together.

Purpose:

The purpose of this procedure is to verify operation of each DoD dedicated user connection before it will be relocated per [ATTACHMENT 3](#). Also, transmit levels for the modem(s) located in slots UD70/170A14 A17 through A20 (and A21 for NWS only) will be adjusted to match the level of the corresponding former X.25 modem in slots UD70/170A14 A6 through A16. This procedure does not apply to new DOD OPUP user connections. Refer to [ATTACHMENT 4](#) for procedures on new OPUP circuit connection and modem transmit level configuration.


Procedure/Steps:

1. For Sterling Only: Proceed to step [5](#) of this attachment.
2. Compare the two TCRs (current and Modification Note 72) to identify DoD circuits that will be relocated to Dedicated RPG Block 4-RJ2DX (TB4) as shown on the Modification Note 72 TCR. Identify circuits by matching the end user name and corresponding circuit numbers between the current and Modification Note 72 versions of the TCR. One or more end user circuits to be relocated may be referred to as PUPs on the current TCR. After relocation, these end users (as shown on the Modification Note 72 TCR) will be referred to as OPUPs. This means the WSR-88D PUP at that end user's location is being replaced by an OPUP. Note both the position of the modem and the corresponding position of the 4-wire circuit on the terminal block for each one that will be relocated. Mark on the TCRs in a manner that facilitates tracking, e.g., highlighting each circuit to be relocated with a different color marker.
3. For All Sites: On the current TCR, record the transmit level (Tx level) for each dedicated modem, which corresponds to a circuit that was marked for relocation in step [2](#). To determine the Tx level, perform steps [3a](#) through [3c](#) for each modem.


ATTACHMENT 2 (Continued)

VERIFY CONNECTION STATUS OF DOD DEDICATED CIRCUITS TO BE RELOCATED AND
ADJUST CORRESPONDING MODEM TX LEVELS




- a. Press the modem  **<RETURN>** key twice to display Data 14.4 T/D? or V.32b 14.4 T/D? (depending on the model of the modem) and Liquid Crystal Display (LCD) window.




- b. Press the  **<ACROSS>** key twice (three times for a 33.6 modem SDC modem, e.g. part number PC42703) until the LCD shows either PhaseJitter=x dg or Rx Level = x dbm.




- c. Press the  **<DOWN>** key until the LCD shows Tx Level = x dBm. Record the value of X on the current TCR next to the corresponding end user's modem for each circuit to be relocated. The range of values for x is 0 to -15.
4. Transfer the transmit levels (Tx level) that were recorded in step 2 from the current TCR to the new location of the respective end user's modem indicated on the Modification Note 72 TCR. Perform steps 4a through 4i for each modem affected in slots UD70/170A14 A17 through A20 (and A21 for NWS only).




- a. Press the modem  **<RETURN>** key twice to display Ranging T/D? or Line Probing (depending on the model of the modem) and Liquid Crystal Display (LCD) window.



- b. Press the  **<DOWN>** key until the LCD shows TELCO OPT'S.




- c. Press the  **<ACROSS>** key until the LCD shows LL Tx Level = Y. If the value of Y matched the value recorded on the Modification Note 72 TCR for this particular modem, proceed to step 4f.


ATTACHMENT 2 (Continued)

**VERIFY CONNECTION STATUS OF DOD DEDICATED CIRCUITS TO BE RELOCATED AND
ADJUST CORRESPONDING MODEM TX LEVELS**




- d. Press the  **<DOWN>** key until the LCD shows TX Level : X, where X matches the value recorded on the Modification Note 72 TCR for this particular modem.




- e. Press the  **<ENTER>** key and the LCD shows TX Level = X.



- f. Press the  **<RETURN>** key twice.



- g. Press the  **<ACROSS>** key until Save Changes=3 (or Save Changes=4 for 33.6 SCD modems, part number PC42703).



- h. Press the  **<ENTER>** key once and the LCD reads Save Completed!



- i. Press the  **<RETURN>** key twice to return to the main LCD display.

5. For Sterling, record the transmit levels for each modem in slots UD70A14 A17 through A20 on the current TCR. Wait for coordination from the ROC OPUP deployment manager. Perform Modification Note 65 on the agreed upon date(s) to support the OPUP TCP deployment transition.

NOTE

NWS Modification Note 65, DoD AFTO 31P1-4-108-607, and FAA EEM 6345.1 CHG 38, Chap 35, must be completed prior to performing the following step.

6. For Sterling, perform steps [6a.](#) through [6i.](#) for each modem in slots UD70A14 A17 through A20.

ATTACHMENT 2 (Continued)

VERIFY CONNECTION STATUS OF DOD DEDICATED CIRCUITS TO BE RELOCATED AND
ADJUST CORRESPONDING MODEM TX LEVELS



- a. Press the modem **<RETURN>** key twice to display Ranging T/D? or Line Probing (depending on the model of the modem) and Liquid Crystal Display (LCD) window.



- b. Press the **<DOWN>** key until the LCD shows TELCO OPT'S.



- c. Press the **<ACROSS>** key until the LCD shows LL Tx Level = Y. If the value of Y matches the value recorded on the current TCR in step 5 for this particular modem, proceed to step 6f.



- d. Press the **<DOWN>** key until the LCD shows TX Level : X, where X matches the value recorded on the current TCR in step 5 for this particular modem.



- e. Press the **<ENTER>** key and the LCD shows TX Level = X.



- f. Press the **<RETURN>** key twice.



- g. Press the **<ACROSS>** key until Save Changes=3 (or Save Changes=4 for 33.6 SCD modems, part number PC42703).




- h. Press the **<ENTER>** key once and the LCD reads Save Completed!

ATTACHMENT 2 (Continued)

**VERIFY CONNECTION STATUS OF DOD DEDICATED CIRCUITS TO BE RELOCATED AND
ADJUST CORRESPONDING MODEM TX LEVELS**



- i. Press the  **<RETURN>** key twice to return to the main LCD display.

ATTACHMENT 3

RELOCATE SPECIFIC DOD OPUP DEDICATED USER CIRCUITS

Tools/Materials Required:

Transmission Line Test Set AM-48 (SERD 15)
Eight Wire Modular Adapter Harris 10220-100 or equivalent
Impact Punch Tool, Jensen 23-814 or equivalent
Impact Punch Tool 66 Blade, Jensen 23-066 or equivalent
TCRs obtained per [ATTACHMENT 1](#) and marked per [ATTACHMENT 2](#)

Initial Conditions:

- All RPGPCA components installed, equipment powered on
- RPG operational with Software Build 4.0 or later
- Technician is logged into the RPG workstation as a user and RPG HCI is running
- RPG is clear of RPG alarms
- All Sites: Completed [ATTACHMENT 2](#), as applicable. Completed all of [Modification Note 65](#) (e.g. installed Cisco cables and configured modems for asynchronous PPP operation).
- All Sites: Proceed only after contacted by either the WSR-88D Hotline or a ROC OPUP deployment manager and an exact date has been coordinated for this procedure to be completed. The ROC Point of Contact (POC) may ask that only specific circuits be relocated on one or more dates to facilitate the rollout of OPUP equipment. The ROC POC should supply contact information for each remote end user corresponding to the RPG circuit(s) being relocated.

Purpose:

The purpose of this procedure is to relocate one or more DOD OPUP dedicated lines on the TB2 (2-RJ2DX) dedicated RPG punch block to the TB4 (4-RJ2DX) block. The dedicated circuits will be verified as working before and after relocation.

NOTE

This procedure assumes remote end circuits for stand-alone USAF OPUPs terminate at the Base Weather Station (BWS) and have not been relocated to a Base Network Control Center (BNCC).

Procedure/Steps:

1. Reference the Current TCR, Modification Note 72 TCR, and [Figure 3-1](#). to identify the corresponding 4-wire positions on the dedicated punch blocks for each dedicated circuit that will be relocated. Mark, as necessary, directly on [Figure 3-1](#). the circuits to be relocated, as the circuits will all be relocated from TB2 to TB4.
2. Verify the connection status of the corresponding X.25 line numbers on the RPG HCI Product Distribution Comms Status (PDCS) window. To open, click on the PDCS box in the RPG HCI window. Verify the corresponding line numbers of all circuits that will be relocated are in a CONNECT status. For FAA Redundant, verify the connection achieves CONNECT status on both channels.

NWS: EHB-6, Modification Note 72
DoD: TO 31P1-4-108-614
FAA: EEM Modification Handbook 6345.1 CHG 46, Chap 42

ATTACHMENT 3 (Continued)

RELOCATE SPECIFIC DOD OPUP DEDICATED USER CIRCUITS

| | | RPG TB2 (2-RJ2DX) | | | | RPG TB4 (4-RJ2DX) | |
|------------|---|----------------------|-------------------|---|---|------------------------|------------------------------|
| 4-Wire Ckt | { | 01__ | | | | 4-Wire Ckt { 01__ | |
| #1 | { | 02__ | PDSC Line 9 | — | } | #1 { 02__ PDSC Line 33 | |
| | { | 03__ | Modem Slot 5 | — | } | | { 03__ Modem Slot 17 |
| | { | 04__ | (DOD/FAA Only) | — | } | | { 04__ |
| | { | 05__ | (NM/S - Not Used) | — | } | | { 05__ |
| #2 | { | 06__ | PDSC Line 10 | — | } | #2 { 06__ PDSC Line 34 | |
| | { | 07__ | Modem Slot 6 | — | } | | { 07__ Modem Slot 18 |
| | { | 08__ | | — | } | | { 08__ |
| #3 | { | 09__ | | — | } | #3 { 09__ | |
| | { | 10__ | PDSC Line 11 | — | } | | { 10__ PDSC Line 35 |
| | { | 11__ | Modem Slot 7 | — | } | | { 11__ Modem Slot 19 |
| | { | 12__ | | — | } | | { 12__ |
| #4 | { | 13__ | | — | } | #4 { 13__ | |
| | { | 14__ | PDSC Line 12 | — | } | | { 14__ PDSC Line 36 |
| | { | 15__ | Modem Slot 8 | — | } | | { 15__ Modem Slot 20 |
| | { | 16__ | | — | } | | { 16__ |
| #5 | { | 17__ | | — | } | #5 { 17__ | |
| | { | 18__ | PDSC Line 13 | — | } | | { 18__ (PDSC Line 37 - NM/S) |
| | { | 19__ | Modem Slot 9 | — | } | | { 19__ (Distant MSCF |
| | { | 20__ | | — | } | | { 20__ FAA/DOD Only) |
| | { | 21__ | | — | } | | { 21__ Modem Slot 21 |
| #6 | { | 22__ | | — | } | #6 { 22__ | |
| | { | 23__ | PDSC Line 14 | — | } | | { 23__ |
| | { | 24__ | Modem Slot 10 | — | } | | { 24__ |
| | { | 25__ | | — | } | | { 25__ |
| #7 | { | 26__ | | — | } | #7 { 26__ | |
| | { | 27__ | PDSC Line 15 | — | } | | { 27__ |
| | { | 28__ | Modem Slot 11 | — | } | | { 28__ |
| | { | 29__ | | — | } | | { 29__ |
| #8 | { | 30__ | | — | } | #8 { 30__ | |
| | { | 31__ | PDSC Line 16 | — | } | | { 31__ |
| | { | 32__ | Modem Slot 12 | — | } | | { 32__ |
| | { | 33__ | | — | } | | { 33__ |
| #9 | { | 34__ | | — | } | #9 { 34__ | |
| | { | 35__ | PDSC Line 17 | — | } | | { 35__ |
| | { | 36__ | Modem Slot 13 | — | } | | { 36__ |
| | { | 37__ | | — | } | | { 37__ |
| #10 | { | 38__ | | — | } | #10 { 38__ | |
| | { | 39__ | PDSC Line 18 | — | } | | { 39__ |
| | { | 40__ | Modem Slot 14 | — | } | | { 40__ |
| | { | 41__ | | — | } | | { 41__ |
| #11 | { | 42__ | | — | } | #11 { 42__ | |
| | { | 43__ | PDSC Line 19 | — | } | | { 43__ |
| | { | 44__ | Modem Slot 15 | — | } | | { 44__ |
| | { | 45__ | | — | } | | { 45__ |
| #12 | { | 46__ | | — | } | #12 { 46__ | |
| | { | 47__ | PDSC Line 20 | — | } | | { 47__ |
| | { | 48__ | Modems Slot 16 | — | } | | { 48__ |

Figure 3-1. Quick Reference Map from RPG HCI PDSC to Modem Chassis to Dedicated Blocks

ATTACHMENT 3 (Continued)

RELOCATE SPECIFIC DOD OPUP DEDICATED USER CIRCUITS

3. Do not proceed until the dedicated circuit(s) to be relocated are all in working order (on both channels for FAA redundant) and the remote end user's OPUP upgrade is being performed. ROC personnel and/or the remote end user should contact your site to notify you that they are ready for the installation of [Modification Notes 65](#) and 72 on the RPG. [Modification Note 65](#) will already have been completed for most RPGs.
4. Remove the COHP-150 surge suppressors for the circuit to be relocated. If this is an NWS RPG, which has an extended RPG demarc, then remove the surge suppressors from the corresponding extended dedicated block instead of the NEXRAD block.
5. Before disconnecting the 4-wire circuit, note the color pattern (e.g. white/blue, blue/white, white/orange, and orange/white) used for the circuit to be relocated. It is important to record the specific color pattern sequence, so this sequence can be duplicated when the circuit is punched in its new location. Remove the 4-wire dedicated circuit from the telco side of the NEXRAD RPG dedicated block (2-RJ2DX or TB2). Punch the circuit at its new location on 4-RJ2DX (or TB4) using an impact punch tool (Jensen 23-814 or equivalent), and re-install the COHP-150 surge suppressors at the new location.
6. After the RPG circuit relocation, coordinate with the remote end user's POC to verify whether the OPUP TCP/IP/PPP upgrade is completed or if the remote end PPP modem has at least been connected.
7. For the modem corresponding to the relocated circuit, verify that the Modem LCD reads V32b 14.4 T/D? and the TR light is lit solid. The RD and TD lights will flicker as data is transmitted. If the modem is not physically connected to a far end modem (no CD light), the TR light should be lit solid. If the modem is physically connected to a far end modem, but there is no software application connection, the TR light will be cycling (approximate 30 to 45 second cycles). A summary table of the RPG modem lights and their meanings is given below.

| Summary Table of RPG Modem Lights | |
|------------------------------------|--|
| RPG Modem Lights(s) | Status |
| CD OFF | No physical connection to OPUP modem |
| CD ON | Good physical connection to OPUP modem |
| TR ON | RPG software/router communicating to RPG modem |
| CD ON / TR Cycling | No logical connection to OPUP software/router |
| CD ON / TR ON TD AND RD FLICKERING | Good physical and logical connection to OPUP. OPUP and RPG software are communicating. |

ATTACHMENT 3 (Continued)

RELOCATE SPECIFIC DOD OPUP DEDICATED USER CIRCUITS

8. If the modems do not connect, verify the RPG modem's TX Level was properly adjusted ([ATTACHMENT 2](#) step [4](#)) and have the remote end check their transmit level. If the original transmit levels do not appear to work, work with the remote end used and adjust the transmit levels for both modems using the AM-48 transmission test set and EHB 6-525, Revision 1, dated 30 April 2003, paragraph 6-6.16, step 58. If still not connected, verify the RPG modem has been configured for the PPP option set in accordance with [Modification Note 65](#), Attachment 6 (or EHB 6-525, Revision 1, Dated 30 April 2003, paragraph 6-6.16). This same setup procedure also applies to the OPUP modem, except the MODULATION OPT'S mode setting should be Originate on the OPUP modem end.
9. Once the OPUP has been installed, the RPG circuit has been relocated, and the 4-wire circuit is working end to end, verify the connection status of the corresponding new line number (33 through 36 and 37 for NWS only) on the RPG HCI Product Distribution Comms Status (PDCS) window. To open, click on either the Narrowband Link or the PDCS Box in the RPG HCI window. Verify that the corresponding line numbers of all circuits that will be relocated are in a CONNECT status. For FAA Redundant, verify that the connection achieves CONNECT status on both channels.
10. Note that the values in the ID and User Name columns will not be the same as they were before the OPUP upgrade and relocation. OPUP IDs are typically in the range of 800 through 900. Notify the Hotline (1-800-643-3363) if a user connects without a name in step [9](#). Also notify the Hotline if the User ID is showing a Ø (zero). Verify the names are in the correct order as shown on the Modification Note 72 TCR. If not, verify the correct punch down sequence was followed on the TB4 punch block.
11. Repeat steps [3](#) through [10](#) for each 4-wire dedicated circuit to be relocated.

ATTACHMENT 4

**INSTALL NEW DOD DEDICATED CIRCUITS AND ADJUST CORRESPONDING MODEM TX
LEVEL**

Tools/Materials Required:

Transmission Line Test Set AM-48 (SERD 15)
Eight Wire Modular Adapter Harris 10220-100 or equivalent
Impact Punch Tool, Jensen 23-814 or equivalent
Impact Punch Tool 66 Blade, Jensen 23-066 or equivalent
Modification Note 72 TCR obtained per [ATTACHMENT 1](#) and marked per
[ATTACHMENT 2](#)

Initial Conditions:

- All RPGPCA components installed, equipment powered on
- RPG operational with Software Build 4.0 or later
- Technician is logged into the RPG workstation as a user and RPG HCI is running
- RPG is clear of RPG alarms
- All Sites: Completed [ATTACHMENT 2](#)
- WSR-88D Hotline or the ROC OPUP deployment manager has coordinated an exact date with your site for this procedure to be completed. The ROC will provide contact information for the remote end OPUP maintainer to work with on the circuit checkout.

Purpose:

The purpose of this procedure is to install one or more 4-wire dedicated circuit on the TB4 dedicated RPG punch block corresponding to new OPUP end users.

Procedure/Steps:

1. Compare the current and Modification Note 72 TCRs to identify new OPUP connections. The following table provides a list of specific RPGs and possible new OPUP connections.

NOTE

The table contains the most current OPUP requirements information as of the date of this publication. DOD may or may not order all of the circuits identified. If a new user is identified for your site in this table and on the Modification Note 72 TCR, but the telco service has not been delivered or cannot be identified, please notify the WSR-88D Hotline (800-643-3363) to assist you in obtaining this information or update your TCR for Modification Note 72 accordingly, if the circuit will not be ordered by DoD.

NWS: EHB-6, Modification Note 72
DoD: TO 31P1-4-108-614
FAA: EEM Modification Handbook 6345.1 CHG 46, Chap 42

ATTACHMENT 4 (Continued)

INSTALL NEW DOD DEDICATED CIRCUITS AND ADJUST CORRESPONDING MODEM TX LEVEL

| Summary Table of New DoD OPUP Connections | | | |
|---|-------------------|------------------------------|------------|
| Site Name | Radar 4 Letter ID | Possible New OPUP Connection | DoD Agency |
| ANDERSEN AFB | PGUA | HICKAM 17 OWS OPUP | AFWA |
| BETHEL (RPG 1) | PABC | ELMENDORF 11 OWS OPUP | AFWA |
| BETHEL (RPG 2) | PABC | ELMENDORF 11 OWS OPUP | AFWA |
| CHARLESTON, SC | KCLX | SPAWAR CHARLESTON SC | USN |
| DENVER | KFTG | DAVIS-MONTHAN 25 OWS OPUP | AFWA |
| DOVER AFB | KDOX | NAS PATUXENT RIVER OPUP 2 | USN |
| FAIRBANKS (RPG 1) | PAPD | ELMENDORF 11 OWS OPUP | AFWA |
| FAIRBANKS (RPG 2) | PAPD | ELMENDORF 11 OWS OPUP | AFWA |
| KAMUELA/KOHALA APT (RPG 1) | PHKM | HICKAM 17 OWS OPUP | AFWA |
| KAMUELA/KOHALA APT (RPG 2) | PHKM | HICKAM 17 OWS OPUP | AFWA |
| KING SALMON (RPG 1) | PAKC | ELMENDORF 11 OWS OPUP | AFWA |
| KING SALMON (RPG 2) | PAKC | ELMENDORF 11 OWS OPUP | AFWA |
| MIDDLETON ISLAND (RPG 1) | PAIH | ELMENDORF 11 OWS OPUP | AFWA |
| MIDDLETON ISLAND (RPG 2) | PAIH | ELMENDORF 11 OWS OPUP | AFWA |
| NOME (RPG 1) | PAEC | ELMENDORF 11 OWS OPUP | AFWA |

ATTACHMENT 4 (Continued)

INSTALL NEW DOD DEDICATED CIRCUITS AND ADJUST CORRESPONDING MODEM TX LEVEL

| Summary Table of New DoD OPUP Connections | | | |
|--|--------------------------|-------------------------------------|-------------------|
| Site Name | Radar 4 Letter ID | Possible New OPUP Connection | DoD Agency |
| NOME (RPG 2) | PAEC | ELMENDORF 11 OWS OPUP | AFWA |
| NORFOLK | AKQ | NAS PAXTUXENT RIVER OPUP 2 | AFWA |
| SITKA (RPG 1) | PACG | ELMENDORF 11 OWS OPUP | AFWA |
| SITKA (RPG 2) | PACG | ELMENDORF 11 OWS OPUP | AFWA |
| SOUTH KAUAI (RPG 1) | PHKI | HICKAM 17 OWS OPUP | AFWA |
| SOUTH KAUAI (RPG 2) | PHKI | HICKAM 17 OWS OPUP | AFWA |
| SOUTH SHORE (RPG 1) | PHWA | HICKAM 17 OWS OPUP | AFWA |
| SOUTH SHORE (RPG 2) | PHWA | HICKAM 17 OWS OPUP | AFWA |
| Table Notes: 1. ELMENDORF 11 OWS OPUP is not considered a new connection for ANCHORAGE, because this OPUP replaces the legacy PUP at the Elmendorf AFB BWS. 2. HICKAM 17 OWS OPUP is not considered a new connection for MOLOKAI, because this OPUP replaces the legacy PUP at the Hickam AFB BWS. | | | |

ATTACHMENT 4 (Continued)

INSTALL NEW DOD DEDICATED CIRCUITS AND ADJUST CORRESPONDING MODEM TX LEVEL

2. Install the new 4-wire dedicated circuit on the telco side of the NEXRAD RPG dedicated block. Punch the circuit at its new location on 4-RJ2DX (or TB4) per [Figure 4-1](#). using an impact punch tool (Jensen 23-814 or equivalent). If this is an NWS RPG, which has an extended RPG demarc, install the dedicated circuit on the telco side of the extended dedicated demarc block.

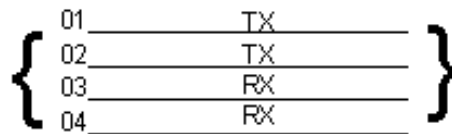


Figure 4-1. Four-Wire Circuit Order

3. Install two CPH-150 surge suppressors at the new circuit location.
4. After the RPG circuit installation, coordinate with the remote OPUP maintainer to verify whether the OPUP TCP/IP/PPP upgrade is complete or if the remote end PPP modem has been connected.
5. For the modem corresponding to the relocated circuit, verify that the Modem LCD reads V32b 14.4 T/D? and the TR light is lit solid. The RD and TD lights will flicker as data is transmitted. If the modem is not physically connected to a far end modem (no CD light), the TR light should be lit solid. If the modem is physically connected to a far end modem, but there is no software application connection, the TR light will be cycling (approximate 30 to 45 second cycles). A summary table of the RPG modem lights and their meanings is given below.

| Summary Table of RPG Modem Lights | |
|-----------------------------------|--|
| RPG Modem Lights(s) | Status |
| CD OFF | No physical connection to OPUP modem |
| CD ON | Good physical connection to OPUP modem |
| TR ON | RPG software/router communicating to RPG modem |
| CD ON / TR Cycling | No logical connection to OPUP software/router |
| CD ON / TR ONTD AND RD FLICKERING | Good physical and logical connection to OPUP. OPUP and RPG software are communicating. |

ATTACHMENT 4 (Continued)

INSTALL NEW DOD DEDICATED CIRCUITS AND ADJUST CORRESPONDING MODEM TX LEVEL

6. Work with the remote end user to properly adjust the TX levels for the RPG modem (both channels for FAA redundant) and have the remote end optimize their transmit level using the AM-48 transmission test set per EHB 6-525, Revision 1, Dated 30 April 2003, paragraph 6-6.16, step 58.
7. If still not connected, verify the RPG modem has been configured for the PPP option set in accordance with [Modification Note 65](#), Attachment 6 (or EHB 6-525, Revision 1, Dated 30 April 2003, paragraph 6-6.16). This same setup procedure also applies to the OPUP modem, except the MODULATION OPT'S mode setting should be Originate on the OPUP modem end. For FAA redundant, verify modem setup on both RPG channels.
8. Verify that the modem shows a physical connection to a far end modem, e.g. Data 14.4 or V34 33.6 is shown on the modem LCD. For FAA redundant, verify on both channels.
9. Once the circuit is working end to end, verify the connection status of the corresponding new line number (33 through 36 and 37 for NWS only) on the RPG HCI Product Distribution Comms Status (PDCS) window. To open, click on either the Narrowband Link or the PDCS box in the RPG HCI window. Verify that the corresponding line numbers of all new circuits are in a CONNECT status. For FAA Redundant, verify that the connection achieves CONNECT status on both channels.
10. Note that the values in the ID and User Name columns. OPUP IDs are typically in the range of 800 - 900. Notify the Hotline (1-800-643-3363) if a user connects without a name. Also notify the Hotline if the User ID is showing a Ø (zero). Verify the names are in the correct position as shown on the Modification Note 72 TCR. If not, verify the correct punch down sequence was followed on the TB4 punch block.
11. Repeat steps [2](#) through [10](#) for each new OPUP connection.

ATTACHMENT 5

EFFECTIVITY

NWS

| NEXRAD Site Name | City, ST | EQP | SID | ORG Code |
|--------------------|--------------------|-----|-----|----------|
| Eastern Region | | | | |
| CHARLESTON, SC | CHARLESTON, SC | RPG | CHS | WN9208 |
| CINCINNATI | WILMINGTON, OH | RPG | ILN | WN9710 |
| COLUMBIA | WEST COLUMBIA, SC | RPG | CAE | WN9310 |
| MOREHEAD CITY | NEWPORT, NC | RPG | MHX | WN9307 |
| NORFOLK | WAKEFIELD, VA | RPG | AKQ | WN9952 |
| PHILADELPHIA | MOUNT HOLLY, NJ | RPG | PHI | WN9950 |
| PORTLAND, ME | GRAY, ME | RPG | GYX | WN9938 |
| RALEIGH/DURHAM | RALEIGH, NC | RPG | RAH | WN9306 |
| STERLING | STERLING, VA | RPG | LWX | WN9931 |
| Southern Region | | | | |
| ALBUQUERQUE | ALBUQUERQUE, NM | RPG | ABQ | WP9365 |
| ATLANTA | PEACHTREE CITY, GA | RPG | FFC | WP9219 |
| AUSTIN/SAN ANTONIO | NEW BRAUNFELS, TX | RPG | EWX | WP9253 |

ATTACHMENT 5 (Continued)

EFFECTIVITY

| NEXRAD Site Name | City, ST | EQP | SID | ORG Code |
|------------------|-----------------------|-----|-----|----------|
| BRANDON, MS | JACKSON, MS | RPG | JAN | WP9235 |
| CORPUS CHRISTI | CORPUS CHRISTI, TX | RPG | CRP | WP9251 |
| DALLAS/FT WORTH | FORT WORTH, TX | RPG | FWD | WP9259 |
| EL PASO | SANTA TERESA, NM | RPG | EPZ | WP9270 |
| JACKSONVILLE | JACKSONVILLE, FL | RPG | JAX | WP9206 |
| KEY WEST | BOCA CHICA KEY, FL | RPG | BYX | WP9201 |
| LITTLE ROCK | NORTH LITTLE ROCK, AR | RPG | LZK | WP9340 |
| MELBOURNE | MELBOURNE, FL | RPG | MLB | WP9204 |
| MIAMI | MIAMI, FL | RPG | MFL | WP9918 |
| MOBILE | MOBILE, AL | RPG | MOB | WP9223 |
| NORMAN | NORMAN, OK | RPG | OUN | WP9921 |
| SHREVEPORT | SHREVEPORT, LA | RPG | SHV | WP9248 |
| SLIDELL | SLIDELL, LA | RPG | LIX | WP9919 |
| TAMPA | RUSKIN, FL | RPG | TBW | WP9961 |
| Central Region | | | | |
| CHEYENNE | CHEYENNE, WY | RPG | CYS | WR9564 |
| DENVER | BOULDER, CO | RPG | BOU | WR9469 |

ATTACHMENT 5 (Continued)

EFFECTIVITY

| NEXRAD Site Name | City, ST | EQP | SID | ORG Code |
|-------------------|--------------------|-----|-----|----------|
| DETROIT | WHITE LAKE, MI | RPG | DTX | WR9954 |
| FARGO/GRAND FORKS | GRAND FORKS, ND | RPG | FGF | WR9750 |
| LOUISVILLE | LOUISVILLE, KY | RPG | LMK | WR9423 |
| NORTHERN INDIANA | NORTH WEBSTER, IN | RPG | IWX | WR9534 |
| OMAHA | VALLEY, NE | RPG | OAX | WR9553 |
| PLEASANT HILL | PLEASANT HILL, MO | RPG | EAX | WR9446 |
| PUEBLO | PUEBLO, CO | RPG | PUB | WR9464 |
| RAPID CITY | RAPID CITY, SD | RPG | UNR | WR9662 |
| ST LOUIS | WELDON SPRING, MO | RPG | LSX | WR9971 |
| WICHITA | WICHITA, KS | RPG | ICT | WR9450 |
| Western Region | | | | |
| BOISE | BOISE, ID | RPG | BOI | WT9681 |
| SALT LAKE CITY | SALT LAKE CITY, UT | RPG | SLC | WT9932 |
| GREAT FALLS | GREAT FALLS, MT | RPG | TFX | WT9950 |
| LAS VEGAS | LAS VEGAS, NV | RPG | VEF | WT9386 |
| LOS ANGELES | OXNARD, CA | RPG | LOX | WT9295 |
| PORTLAND, OR | PORTLAND, OR | RPG | PQR | WT9698 |

ATTACHMENT 5 (Continued)

EFFECTIVITY

| NEXRAD Site Name | City, ST | EQP | SID | ORG Code |
|------------------|----------------------------|-----|-------|----------|
| RENO | RENO, NV | RPG | REV | WT9488 |
| SACRAMENTO | SACRAMENTO, CA | RPG | STO | WT9914 |
| SAN JOAQUIN VALY | HANFORD, CA | RPG | HNX | WT9389 |
| SAN DIEGO | SAN DIEGO, CA | RPG | SGX | WT9918 |
| SEATTLE | SEATTLE, WA | RPG | SEW | WT9922 |
| SPOKANE | SPOKANE, WA | RPG | OTX | WT9785 |
| TUCSON | TUCSON, AZ | RPG | TWC | WT9274 |
| PHOENIX | PHOENIX, AZ | RPG | PSR | WT9278 |
| YUMA | PHOENIX, AZ | RPG | PSR | WT9278 |
| DoD | | | | |
| ALTUS AFB | FREDERICK, OK | RPG | FDR | FE4419 |
| ANDERSEN AFB | ANDERSEN AFB, GU | RPG | UAM | FE5240 |
| BEALE AFB | OROVILLE, CA | RPG | BBX | FE4686 |
| CAMP HUMPHREYS | CAMP HUMPHREYS, KO | RPG | KSGR4 | FI5294 |
| CANNON AFB | FIELD, NM | RPG | FDX | FE4855 |
| COLUMBUS AFB | GREENWOOD SPRINGS, MS | RPG | GWX | FE3022 |
| DOVER AFB | ELLENDALE STATE FOREST, DE | RPG | DOX | FE4497 |

ATTACHMENT 5 (Continued)

EFFECTIVITY

| NEXRAD Site Name | City, ST | EQP | SID | ORG Code |
|------------------|--------------------|-----|-------|----------|
| DYESS AFB | MORAN, TX | RPG | DYX | FE4661 |
| EDWARDS AFB | BORON, CA | RPG | EYX | FE2805 |
| EGLIN AFB | RED BAY, FL | RPG | EVX | FE2823 |
| FT CAMPBELL | TRENTON, KY | RPG | HPX | FY4812 |
| FT DRUM | MONTAGUE, NY | RPG | TYX | FY4846 |
| FT HOOD | GRANGER, TX | RPG | GRK | FY4824 |
| FT POLK | FT POLK, LA | RPG | POE | FY4825 |
| FT RUCKER | ECHO, AL | RPG | EOX | FY4805 |
| HOLLOMAN AFB | RUIDOSO, NM | RPG | HDX | FE4801 |
| KADENA AB | KADENA AB, JA | RPG | ODNR5 | FH5270 |
| KUNSAN AB | KUNSAN AB, KO | RPG | KJKR4 | FH5284 |
| LAJES AB | SANTA BARBARA, AZR | RPG | PLAL3 | FE4486 |
| LAUGHLIN AFB | BRACKETVILLE, TX | RPG | DFX | FE3099 |
| MAXWELL AFB | CARRVILLE, AL | RPG | MXX | FE3300 |
| MINOT AFB | DEERING, ND | RPG | MBX | FE4528 |
| MOODY AFB | SOUTH STOCKTON, GA | RPG | VAX | FE4830 |
| ROBINS AFB | JEFFERSONVILLE, GA | RPG | JGX | FE2067 |
| VANCE AFB | CHEROKEE, OK | RPG | VNX | FE3029 |

ATTACHMENT 5 (Continued)

EFFECTIVITY

| NEXRAD Site Name | City, ST | EQP | SID | ORG Code |
|---------------------------|----------------------|-----|-----|----------|
| VANDENBERG AFB | ORCUTT, CA | RPG | VBX | FE4610 |
| FAA | | | | |
| ANCHORAGE FAA (RPG 2) | KENAI, AK | RPG | AHG | 6901AJ |
| ANCHORAGE FAA (RPG 1) | KENAI, AK | RPG | AHG | 6901AJ |
| BETHEL FAA (RPG 2) | BETHEL, AK | RPG | ABC | 690112 |
| BETHEL FAA (RPG 1) | BETHEL, AK | RPG | ABC | 690112 |
| FAIRBANKS FAA (RPG 2) | FAIRBANKS, AK | RPG | APD | 690178 |
| FAIRBANKS FAA (RPG 1) | FAIRBANKS, AK | RPG | APD | 690178 |
| KAMUELA/KOHALA APT(RPG 2) | KAMUELA, HI | RPG | HKM | 699235 |
| KAMUELA/KOHALA APT(RPG 1) | KAMUELA, HI | RPG | HKM | 699235 |
| KING SALMON FAA (RPG 2) | KING SALMON, AK | RPG | AKC | 690137 |
| KING SALMON FAA (RPG 1) | KING SALMON, AK | RPG | AKC | 690137 |
| MIDDLETON ISLAND (RPG 2) | MIDDLETON ISLAND, AK | RPG | AIH | 690140 |
| MIDDLETON ISLAND (RPG 1) | MIDDLETON ISLAND, AK | RPG | AIH | 690140 |
| MOLOKAI FAA (RPG 2) | MOLOKAI, HI | RPG | HMO | 699213 |
| MOLOKAI FAA (RPG 1) | MOLOKAI, HI | RPG | HMO | 699213 |
| NOME FAA (RPG 2) | NOME, AK | RPG | AEC | 690147 |

ATTACHMENT 5 (Continued)

EFFECTIVITY

| NEXRAD Site Name | City, ST | EQP | SID | ORG Code |
|-------------------------|-------------------|-----|-----|----------|
| NOME FAA (RPG 1) | NOME, AK | RPG | AEC | 690147 |
| SAN JUAN FAA (RPG 2) | SAN JUAN, PR | RPG | JUA | 69F362 |
| SAN JUAN FAA (RPG 1) | SAN JUAN, PR | RPG | JUA | 69F362 |
| SITKA FAA (RPG 2) | BIORKA ISLAND, AK | RPG | ACG | 690141 |
| SITKA FAA (RPG 1) | BIORKA ISLAND, AK | RPG | ACG | 690141 |
| SOUTH KAUAI FAA (RPG 2) | SOUTH KAUAI, HI | RPG | HKI | 699211 |
| SOUTH KAUAI FAA (RPG 1) | SOUTH KAUAI, HI | RPG | HKI | 699211 |
| SOUTH SHORE FAA (RPG 2) | NAALEHU, HI | RPG | HWA | 699201 |
| SOUTH SHORE FAA (RPG 1) | NAALEHU, HI | RPG | HWA | 699201 |

NWS: EHB-6, Modification Note 72
DoD: TO 31P1-4-108-614
FAA: EEM Modification Handbook 6345.1 CHG 46, Chap 42

ATTACHMENT 6

DOD DIAL CIRCUIT RELOCATION ON THE RPG COMPLETION FORM

******* DoD Only will complete and return this form *******
NWS report completion through EMRS

Site Name: _____

Site Identifier: _____

Total Time to Complete this Modification Document: _____

Technician's Name(s): _____

Technician's Phone Number: _____

Date Completed: _____

Equipment Modified (SID) RPG _____

Problem(s) Encountered:

Upon completion of this form, return the information to the ROC using one of the four methods below:

1. Mailing Address: Program Branch, Retrofit Management Team
WSR-88D Radar Operations Center
3200 Marshall Ave., Suite 101
Norman, OK 73072-8028
2. FAX Number: (405) 366-6553
ATTN: Retrofit Management Team
3. E-mail Address: NEXRAD.Logistics@noaa.gov
4. Web Version: <http://www.roc.noaa.gov/ssb/logistics/complete/>

ATTACHMENT 7 - SAMPLE EMRS REPORT

| A26 Detail Form - ESCM2, SILVER SPRING, MD :: EMRS ANALYST - Microsoft Internet Explorer | | | | | | | | | |
|---|-------------------------------|-----------------------------|--|---------------------------|-----------------|------------|-------------|-------------|--------------------------|
| GENERAL INFORMATION | | | | | | | | | |
| NEW RECORD | | WFO* DTX | | Document No.* DTX30829000 | | | | | |
| 1. Open Date | Open Time | 2. Op Initials | 3. Response Priority | | 4. Close Date | Close Time | | | |
| 08/29/2003 | 08:00 | WSH | <input type="radio"/> Immediate <input type="radio"/> Low <input type="radio"/> Routine <input checked="" type="radio"/> Not Applicable | | 08/29/2003 | 09:00 | | | |
| 5. Maintenance Description 439 characters left RADAR, WSR-88D DoD Dedicated Circuit Relocations and New Installs on the RPG | | | | | | | | | |
| EQUIPMENT INFORMATION | | | | | | | | | |
| 6. Station ID* | 7. Equipment Code | 8. Serial Number | | | 9. TM | 10. AT | 11. How Mal | | |
| DTX | RPG | DC015 | | | M | M | 999 | | |
| Alert: Time Remaining: 0:00 (For Block 12 use only) | | | | | | | | | |
| 12. EQUIPMENT OPERATIONAL STATUS TIMES | | | | | | | | | |
| a. Fully Operational | | Partially Operational | | | Not Operational | | | | |
| Hours | Minutes | b. Logistic Delay | c. All Other | d. Logistic Delay | e. All Other | | | | |
| | | Hours Minutes | Hours Minutes | Hours Minutes | Hours Minutes | | | | |
| | | | 1 | | | | | | |
| 13. PARTS USAGE and CONFIGURATION MANAGEMENT REPORTING | | | | | | | | | |
| ASN | Vendor Part No. (New Part) | Serial Number (Old Part) | Serial Number (New Part) | | | | | | |
| | | | | New Row | | | | | |
| | | | | Delete Row | | | | | |
| 14. WORKLOAD INFORMATION | | | | | | | | | |
| a. Routine | | b. Non-Routine | | c. Travel | | d. Misc | | e. Overtime | |
| Hours | Minutes | Hours | Minutes | Hours | Minutes | Hours | Minutes | Hours | Minutes |
| | | | | | | 1 | 00 | | |
| MISCELLANEOUS INFORMATION | | | | | | | | | |
| 15. Maintenance Comments 644 characters left Relocate specific DoD dedicated telecommunications circuits and install new ones, I.A.W NEXRAD Mod Note 72 | | | | | | | | | 16. Tech Initials JPL |
| 17. SPECIAL PURPOSE REPORTING INFORMATION | | | | | | | | | |
| a. Mod No. | b. Mod Act/Deact Date | c. Block C | d. Trouble Ticket No. | e. Block E | | | | | |
| 72 | 08/29/2003 | | | | | | | | |
| Commit A26 | | Place on Hold | | Copy A26 | | New A26 | | Cancel | |

